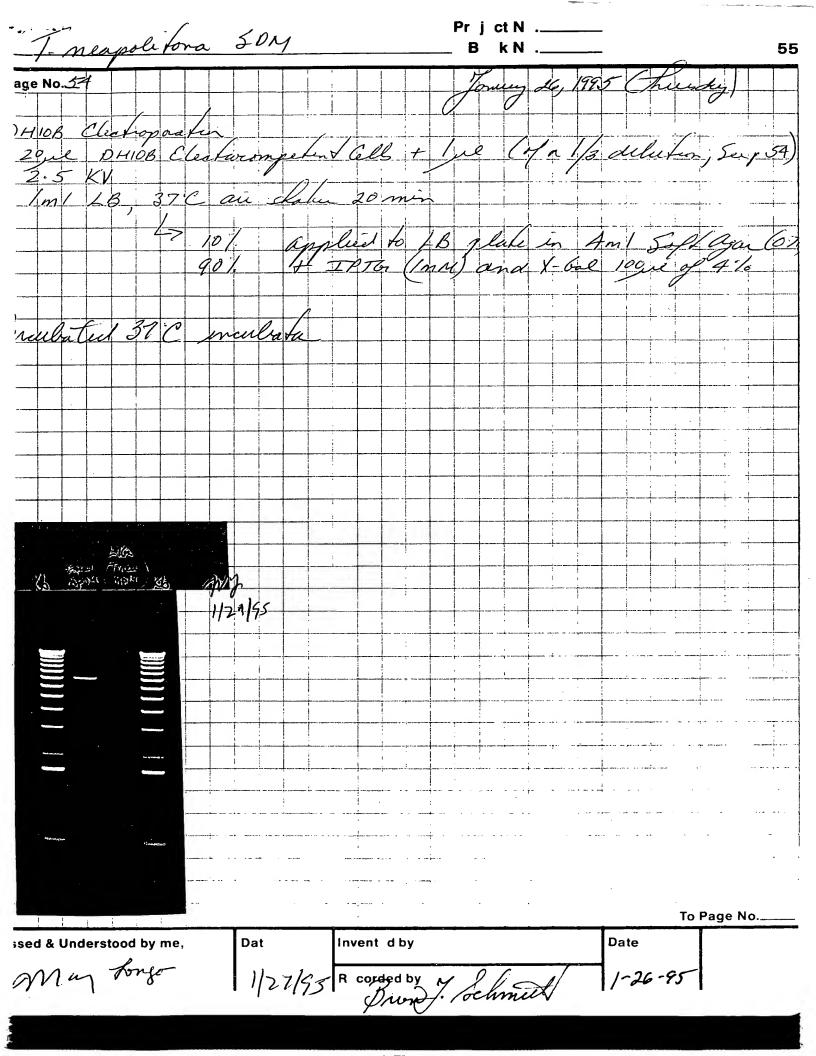
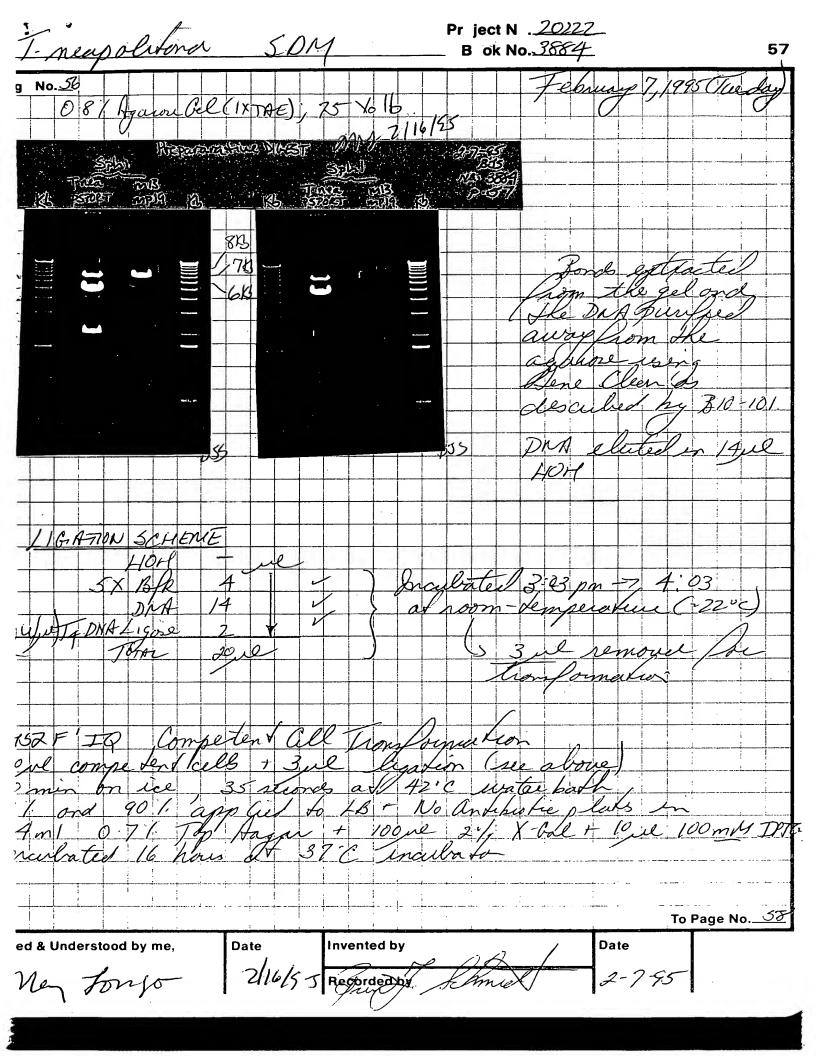
Exhibit S-1 Pr j ct No. 2022 Appl. No. 09/558,421 I neapolitora DLE (2779) SOM B ok No. 3884 49 October 13, 1984 (Thursday) 'age N .4% had DH125 cells with the 50, Le TIOE, DIGIEST SCHEME Grantated 37°C (Kent like React 3) 10 x B/R Eco47111 3 % Agarose Gor (1xTAE) 190Volto 1 Faces 22779 Englisting of the Comment: 2017 V / 1012 4/5-1 E co 4711 Eco47tt There must have component " cause into the puc vector. To Page No. 57 Invented by ss d & Understo d by me, Date 10/24/94 Record d by May forgo

Exhibit S-2 Project N .. Appl. No. 09/558,421 1 neapolitora Book No._ BARACK DLE puc roy Bonthy Sau3A make SSDNA PCR D-> A by SI To Page No. 4





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February 8, 1985(h

A added 200 ul of DH5 XF/IQ lawn cells to 10 ml

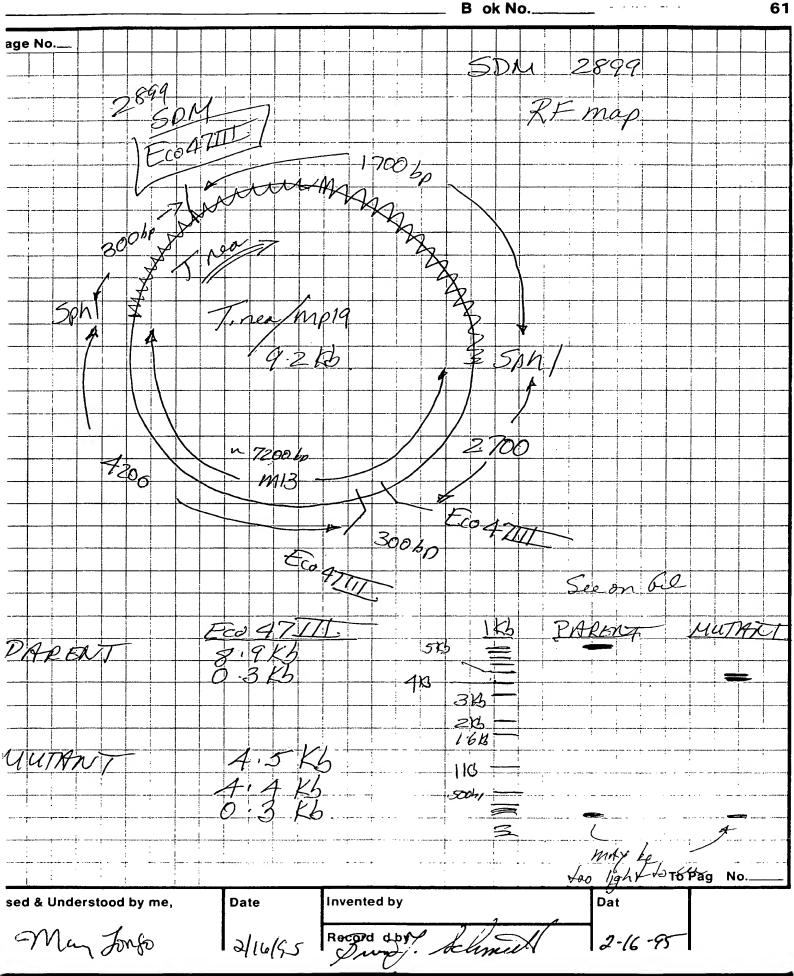
Circle Grow

Inducted Im/ of the cells to 8 gloss tube

-> Coeh tube was inoculated with a clear plage Project No. <u>20221</u> and inculated at 37°C (8:00 am -> Huz -9.2Kb 7-2Xb VECTOR INSERT 8 4Kb VECTOR+I To Page Witnessed & Understood by me, Date Invented by Date Min Longo

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Exhibit S-6 Appl. No. 09/558,421 Proj ct No._ 61 See on Oil May be to pag No.



23

Pr j ct No.____ Bo k No.____

corresponding phenyl abanine to tyrosine The Same tyrosine D will be Changet to Alanine (Corresponding exo For region Tagj) 01 Pol mite Mismp. the SphI fragment The man cloned single Stranded DNA from CJ236 isolated the Bio rad manual before escribed 5 ul SSDNA Test looks real good. DNA D-A (3-5 exo mutant oligo) CGT TTC AAG CGC TAG GGC AAA AGA # 2899 Eu 4711 ste Phe -> Tyr (O-helix) HpaI. GTA TAT TAT AGA GTA GTT AAC CAT CTT TOCA # 2904 kinased 2899 before 2 ml oligo (210 pmci) follows? kinased 2904 20 bul 5x buffe (350mm Tris pH7.6, 50mm Macl2 50 MM Kd, 5 MM PME) Ind load ATP 0,5 ml T4 Kinase (50) rase (50) Agatatosi
5(a+3)0 > T Pagethaze 20,5 pl Hz0 Invented by sed & Und rstood by m, 4 8 95 3/14/95 Record d by Chathia